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IS 7734 (1975): Forceps, Eye, Peripheral Iridectomy, Traquair's Pattern [MHD 5: Ophthalmic Instruments and Appliances]

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AMENDMENT NO. 1 AUGUST 1992
TO
IS 7734 : 1975 SPECIFICATION FOR FORCEPS, EYE, PERIPHERAL IRIDECTOMY, TRAQUAIR'S PATTERN

(*Page* 2, *clause* **6.3**) — Substitute 'IS 7531 : 1990 Surgical instruments — Corrosion resistance of stainless steel surgical instruments — Methods of tests' *for* 'IS 7531 : 1975 Method for boiling and autoclaving test for corrosion resistance of stainless steel surgical instruments'.

(MHD 5)

Reprography Unit, BIS, New Delhi, India

UDC 615-472·4 : 617·721-089·87

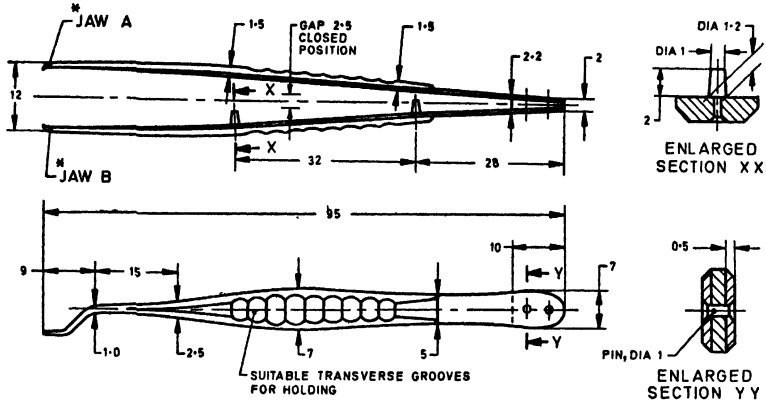
REAFFIRMED 2002

Indian Standard

SPECIFICATION FOR FORCEPS, EYE, PERIPHERAL IRIDECTOMY, TRAQUAIR'S PATTERN

1. Scope — *Dimensional and other requirements for Traquair's pattern peripheral iridectomy forceps used* in eye surgery.

2. Shape and Dimensions — As shown in Fig. 1 and 2.



*See Fig. 2 for details of jaws.

All dimensions in millimetres.

FIG. 1 FORCEPS, EYE, PERIPHERAL IRIDECTOMY, TRAQUAIR'S PATTERN

2.1 *Joint* — Block or semi-block type, conforming to the requirements laid down in **5** of IS : 3642-1966 ' General requirements for surgical instruments '.

3. Materials — Stainless steel conforming to Designation 20Cr13 or 30Cr13 of IS : 6603-1972 ' Specification for stainless steel bars and flats '.

3.1 Check pins shall be of stainless steel conforming to Designation 04Cr18Ni10 or 07Cr18Ni9 of IS : 6603-1972.

4. Workmanship and Finish

4.1 The forceps shall be finished smooth and free from burrs, pits, cracks, etc.

4.2 The edges shall be even and slightly rounded except the teeth which shall be pointed The teeth of the forceps on closure, shall interlock with accuracy and precision and on release the forceps shall open fully without catching.

4.3 The grooves on the arms shall be uniform and shall have a proper grip to the fingers and shall not be sharp.

4.4 The riveting or the spot welding of the joint shall be neat and sound.

4.5 The forceps shall be polished bright and passivated.

5. Heat Treatment — The arms of the forceps shall be hardened and tempered to give a hardness of 380 to 430 *HV*.

6. Tests

6.1 *Performance* — A latex sheet of 0·05 mm thickness shall be stretched over the tip of a finger. The stretched latex sheet shall then be gripped by the teeth of the forceps and pulled to a distance of about 5 mm. The forceps shall hold the latex sheet firmly without any tendency of slipping and the latex sheet shall not be punctured.

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INDIAN STANDARDS INSTITUTION
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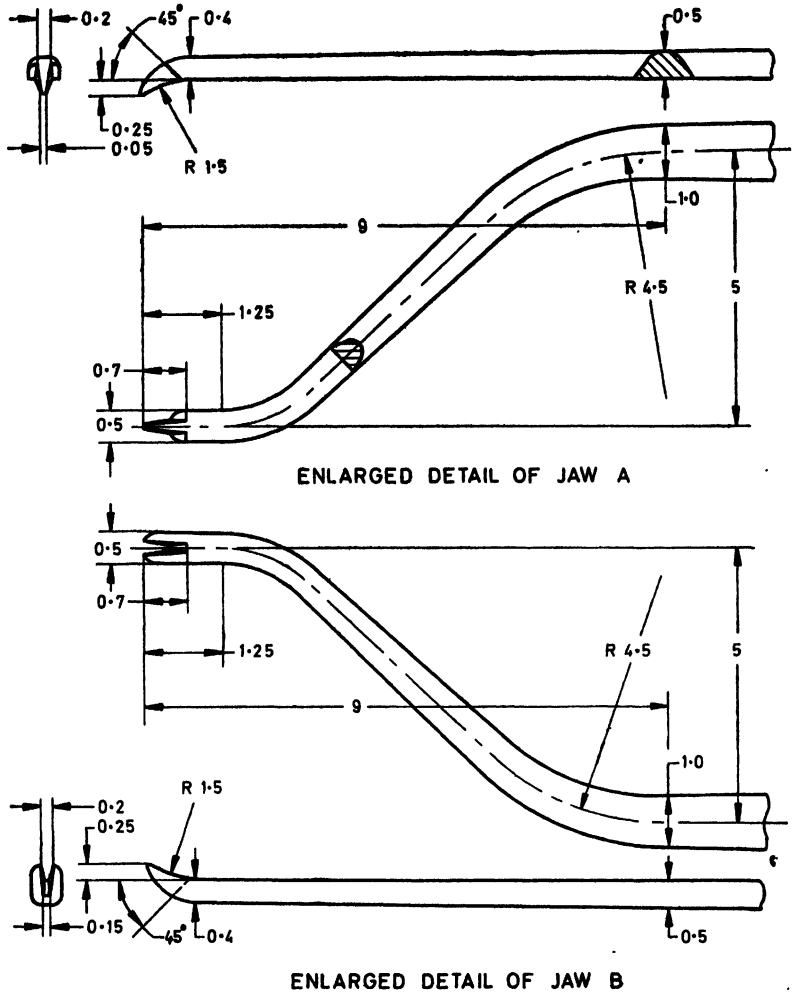
Eye Surgery Instruments Sectional Committee, CPDC 27 [Ref : Doc : CPDC 27 (692)]



All dimensions in millimetres.

FIG. 2 DETAILS OF JAWS A AND B

6.2 *Flexibility* — A strip of vulcanized rubber 2 mm thick shall be placed in between the arms at the angled portion of the forceps leaving the teeth free. An attempt shall be made to close the forceps by means of thumb and finger of one hand. On release of the pressure, the forceps shall show no sign of damage and shall continue to satisfy the requirements laid down in **4.2** and **6.1**.

6.3 *Corrosion Resistance* — The instrument shall satisfy the boiling and autoclaving test as mentioned in IS : 7531-1975 'Method for boiling and autoclaving test for corrosion resistance of stainless steel surgical instruments'.

7. Marking — Each instrument shall be marked with either the manufacturer's name or initials or trade-mark, the letters 'SS' and the country of manufacture.

7.1 *ISI Certification Marking* — Details available with the Indian Standards Institution.

8. Packing — As agreed to between the purchaser and the supplier, however, the teeth of the forceps shall be suitably protected. To protect the forceps from damage, a ring made of plastic or rubber tubing of suitable dimensions shall be provided for closing the forceps, when not in use.